

**Request to Archive
With The National Centers for Environmental Information
For Arctic Lidar
Provided by Earth System Research Laboratory**

2015-04-17

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Jim Churnside
DOC/NOAA/ESRL
303-497-6744
james.h.churnside@noaa.gov

2. Name the organization or group responsible for creating the dataset.

DOC/NOAA/ESRL

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

Airborne lidar profiles of the Chukchi and Beaufort Seas in the Arctic Ocean were collected between 17 and 29 July, 2014. The purpose was to investigate the properties of subsurface plankton layers and the relationships with retreating sea ice. These layers represent a significant contribution to the productivity of the Arctic Ocean. The ice properties in the Arctic are rapidly changing, and these data will be important to understanding the mechanisms to predict future productivity and as a historical record of the layer characteristics in the summer of 2014.

The data are currently recorded in an image file format, with housekeeping data encoded at the bottom of each image. If necessary, these data could be reformatted into some standard like NetCDF.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 2014-07-17 to 2014-07-29

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2015-04-23

7. Who are the expected users of the archived data? How will the archived data be used?

I would expect NOAA and university Arctic researchers to want access to the data.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

Data quality flags are incorporated into the housekeeping section at the bottom of each file.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

N/A

10. List the input datasets and ancillary information used to produce the data.

raw

11. List web pages and other links that provide information on the data.

<http://www.esrl.noaa.gov/csd/staff/james.h.churnside/>

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. No formal metadata exist. These can be written following any recommended standard.

13. Indicate the data file format(s).

1. image file w/metadata

14. Are the data files compressed?

No

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

no idea

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

email Jim

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 4.24GB

Number of Data Files: 1718

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Boulder, Colorado, USA

System Name: NOAA ESRL Chemical Sciences Division

System Owner: NOAA ESRL Chemical Sciences Division

Additional Information:

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PULL

2. FTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Unknown
2. Direct download links

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

The ice properties in the Arctic are rapidly changing, and these data will be important to understanding the mechanisms to predict future productivity and as a historical record of the layer characteristics in the summer of 2014.

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

No

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

There might be a small amount available as part of the publication costs (<\$1000).

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

None